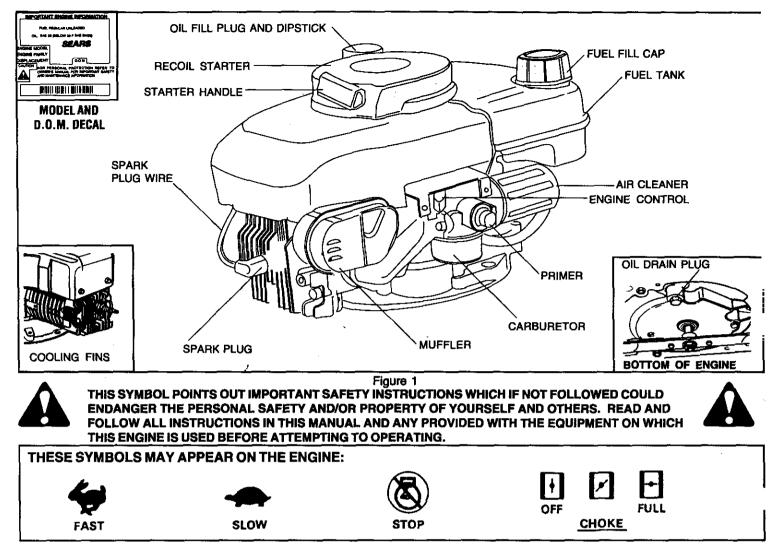
SEARS operator's manual MODEL NO. 143.994006 4.0 RESERVE POWER 10 INCH CUBIC (163 cc) DISPLACEMENT	<image/>
SOLID STATE IGNITION	
CAUTION: Read RULES for Safe OPERATION and INSTRUCTIONS Carefully	ENGINE • Operating • Maintenance • Repair Parts
California Proposition 65 W	ARNING: The engine exhaust from this product contains chemicals

known to the State of California to cause cancer, birth defects or other reproductive harm.

Sold by SEARS, ROEBUCK AND CO., CHICAGO, IL 60684 U.S.A. and SEARS CANADA, INC., TORONTO, ONTARIO, CANADA

Printed in U.S.A.

4-1-99 **181-1178-11**



ENGINES WHICH ARE CERTIFIED TO COMPLY WITH CALIFORNIA AND US EPA EMISSION REGULATIONS FOR ULGE ENGINES: Are certified to operate on regular unleaded gasoline. Include the following emission control system(s): EM, TWC (if so equipped); Do not include any user adjustable features - therefore no other adjustments are needed.

OIL & FUEL RECOMMENDATIONS

TO OPERATE ENGINE, YOU WILL NEED THE FOLLOWING:

(1) A CLEAN, HIGH QUALITY, DETERGENT OIL.

Be sure original container is marked: A.P.I. service "SF"-"SJ".

FOR SUMMER (ABOVE 32°F; 0°C) USE SAE 30 OIL. Using multigrade oil will increase oil consumption. FOR WINTER (BELOW 32°F; 0°C) USE SAE 5W30 OIL. (SAE 10W is an acceptable substitute.)

DO NOT USE SAE 10W40 OIL. OIL SUMP CAPACITY: 21 ounces (1-1/4 U.S. pints) .62 liter

⁽²⁾ A FRESH, CLEAN, UNLEADED REGULAR, UN-LEADED PREMIUM, OR REFORMULATED AU-TOMOTIVE GASOLINE ONLY. DO NOT USE LEADED GASOLINE.

NOTE: DO NOT USE GASOLINE CONTAINING METHANOL (WOOD ALCOHOL). Gasoline containing up to 10% ethanol or grain alcohol ("Gasohol"), or up to 15% MTBE (Methyl Tertiary Butyl Ether), may be used but requires special care when engine is unused for extended periods. See "STORAGE" instructions of Page 4.

NOTE: Use clean oil and fuel and store in approved, clean covered containers. Use clean fill funnels.

Never use "stale" gasoline left over from last season or stored for long periods.

IMPORTANT

KEEP THIS MANUAL HANDY AT ALL TIMES FOR FUTURE REFERENCE. READIT CAREFULLY AND FAMILIARIZE YOUR-SELF WITH THE OPERATING, MAINTENANCE AND SAFETY INSTRUCTIONS. THIS MANUAL ALSO CONTAINS A COM-PLETE PARTS LISTING.

BEFORE STARTING

 READALL INSTRUCTIONS PROVIDED WITH THE EQUIPMENT ON WHICH THIS ENGINE IS USED.
 THIS ENGINE IS EQUIPPED WITH A FEDERALLY MANDATED MECHANISM WHICH STOPS THE ENGINE. DO NOT INTERFERE WITH OR BYPASS THIS MECHANISM. PARTS OF THE MECHANISM MAY BE SUBJECT TO WEAR AND MUST BE CHECKED ONCE A YEAR BY AN AUTHORIZED SEARS ROEBUCK AND CO. (OR SEARS CANADA, INC.) SERVICE CENTER. IN THE EVENT THE MECHANISM FAILS FOR ANY REASON, YOU MUST NOT USE THE ENGINE UNTIL CORRECTED BY AN AUTHORIZED SEARS ROEBUCK AND CO. (OR SEARS CANADA, INC.) SERVICE CENTER.
 DISCONNECT SPARK PLUG WIRE FROM SPARK PLUG AND ATTACH IT TO RETAINING POST (see Figure 6 on Page 3).

BEFORE STARTING (Continued)

(2) INSTALL ENGINE BRAKE CABLE AND STARTER ROPE: BRAKE CABLE (see Figure 2):

Attach engine brake cable to brake mechanism as shown. WARNING: Use only the cable screw that came with the engine brake cable. If the cable screw has been lost, get a new one from a Sears, Roebuck and Co. (or Sears Canada, Inc.) Service Center. Any cable screw used must be the same length as the

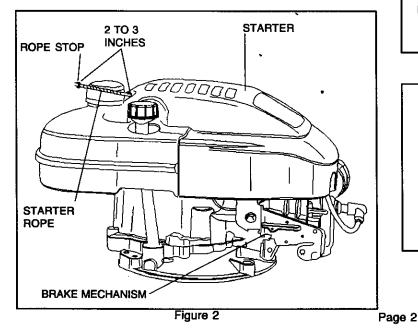
original cable screw. STARTER ROPE:

- A. Depress mower control bar (see Figure 3) against mower handle and hold it in this position.
- B. Pull at least 2 feet of starter rope out of starter and tie a slip knot at starter to prevent starter rope from rewinding back into starter.
- C. Slide rope stop (see Figure 2) onto starter rope and feed starter rope through rope guide on mower handle (see Figure 4).
- D. Feed starter rope through starter handle (see Figure 5) and tie a left hand knot, leaving 1/2 inch to 1 inch of starter rope extending beyond knot. DO NOT PULL LEFT HAND KNOT INTO STARTER HANDLE YET.
- E. With starter handle resting on rope guide (see Figure 4), check starter rope for slack. If there is any slack, pull more starter rope through starter handle and relocate left hand knot to eliminate slack.
- F. Untie slip knot at starter.
- G. Pull left hand knot into starter handle.
- H. Position rope stop 2 to 3 inches from starter (see Figure 2) and fasten it to starter rope by gripping it with pliers and forcing staple through starter rope until staple is even with out side of rope stop.

③ CHECK OIL LEVEL:

CAUTION: NEVER RUN ENGINE UNLESS OIL LEVEL IS BE-TWEEN "FULL" AND "ADD" MARKS ON DIPSTICK. CHECK OIL LEVEL OFTEN DURING ENGINE BREAK-IN. NEVER RUN ENGINE UNLESS OIL FILL PLUG IS TIGHTENED SECURELY INTO OIL FILL HOLE.

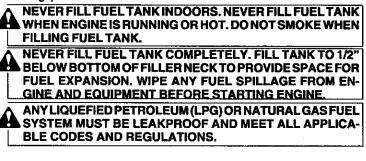
- A. POSITION EQUIPMENT SO ENGINE IS LEVEL.
- B. Clean area around oil fill plug (see Figure 1).
- C. Remove oil fill plug and dipstick.
- D. Wipe dipstick clean, insert it into oil fill hole and tighten securely.
- E. Remove oil fill plug and check oil level. If level is not up to "FULL" mark on dipstick, add recommended oil, until it is. POUR SLOWLY. Wipe dipstick clean each time oil level is checked. DO NOT FILL ABOVE "FULL" MARK ON DIP-STICK.
- F. Replace oil fill plug and tighten securely. See "MAINTE-NANCE" section for any future oil level and oil change instructions (see Page 3).



BEFORE STARTING (Continued)

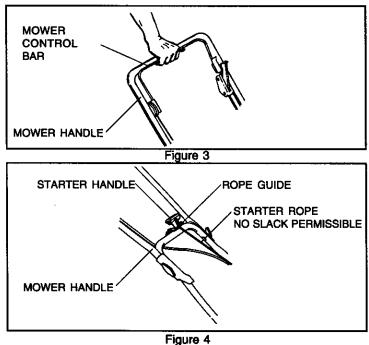
(4) FILL FUEL TANK with gasoline as specified in the preceding "OIL & FUEL RECOMMENDATIONS," item 2. NEVER MIX OIL WITH GASOLINE

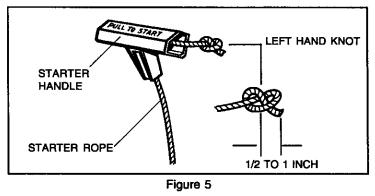
Never use "stale" gasoline left over from last season or stored for long periods.



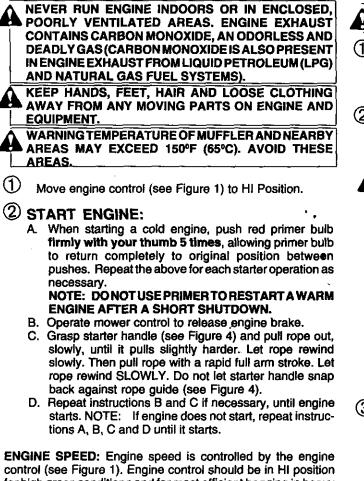
(5) CHECK THE FOLLOWING:

- A. BE SURE EQUIPMENT IS IN NEUTRAL GEAR WITH CLUTCHES, BELTS, CHAINS AND SAFETY SWITCHES DISENGAGED. (FOLLOW EQUIPMENT MANU-FACTURER'S INSTRUCTIONS). THIS SHOULD PLACE ANY SAFETY SWITCHES IN SAFE STARTING POSITION.
- Be sure spark plug wire is attached to spark plug (see Figure 1).





STARTING



ENGINE SPEED: Engine speed is controlled by the engine control (see Figure 1). Engine control should be in HI position for high grass conditions and for most efficient bagging in heavy grass conditions, and in LOW position for light grass, trimming and for fuel economy.

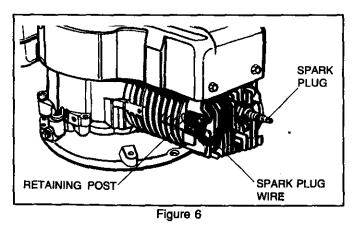
STOPPING

① See mower manufacturer's instructions.

② AFTER ENGINE IS STOPPED:

A. DISCONNECT SPARK PLUG WIRE FROM SPARK PLUG AND ATTACH IT TO RETAINING POST (see Figure 6).

B. NEVER STORE ENGINE WITH FUEL IN TANK IN-DOORS OR IN ENCLOSED, POORLY VENTILATED AREAS, WHERE FUEL FUMES MAY REACH AN OPEN FLAME, SPARK OR PILOT LIGHT AS ON A FURNACE, WATER HEATER, CLOTHES DRYER OR OTHER GAS APPLIANCE.



MAINTENANCE

WARNING: TEMPERATURE OF MUFFLER AND NEARBY AREAS MAY EXCEED 150°F (65°C). AVOID THESE AREAS.

(1) CHECK OIL LEVEL:

Check oil level every five (5) operating hours or each time engine is used. See "3 CHECK OIL LEVEL" in "BEFORE STARTING" on Page 2.

② CHANGE OIL:

Change oil after first two (2) operating hours and every 25 operating hours thereafter, more often if operated in extremely dusty or dirty conditions. Change oil while engine is still warm from recent running.



- A. DISCONNECT SPARK PLUG WIRE FROM SPARK PLUG AND ATTACH IT TO RETAINING POST (see Figure 6).
- B. Position equipment so engine oil drain plug is lowest point on engine.
- C. Remove oil drain plug and oil fill plug to drain oil (see Figure 1).
- D. Replace oil drain plug and tighten securely.
- E. Fill oil sump with recommended oil. See "OIL & FUEL RECOM-MENDATIONS" and "CHECK OIL LEVEL" on Page 1.
- F. Replace oil fill plug and tighten securely.
- G. Connect spark plug wire to spark plug.
- Wipe up any spilled oil and/or gasoline
 NOTE: If it is difficult to reach the oil drain plug, drain fuel. Remove oil fill plug and tip mower on its side. Drain oil into a suitable container.
- 3 AIR CLEANER (see Figure 7):

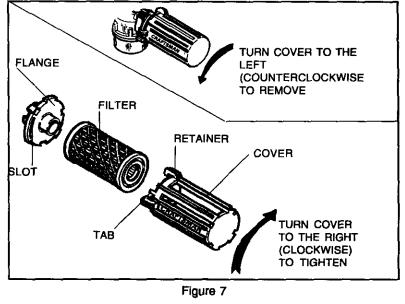
NEVER RUN ENGINE WITHOUT COMPLETE AIR CLEANER IN-STALLED ON ENGINE.

Replace filter once a year or more often if used in extremely dusty or dirty conditions.

DO NOT ATTEMPT TO CLEAN OR OIL FILTER.

Replacement filters are available at any Sears Roebuck and Co. (or Sears Canada, Inc.) Service Center. To install new filter, proceed as follows:

- A. Turn cover to the left (counterclockwise) and remove it and filter from flange. Discard filter.
- B. Clean cover and flange thoroughly.
- C. Insert new filter into cover.
- D. Position cover and filter against flange with tab on cover inserted into lower left comer of slot in flange.
- E. Push cover firmly against flange and turn it to the right (clockwise) as far as it will go. Be sure retainers are locked around flange.



Page 3

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MAINTENANCE (Continued)

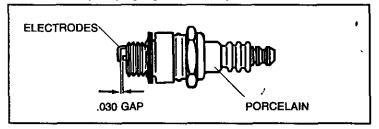
4 SPARK PLUG (see Figure 8):

This spark ignition system meets all requirements of the Canadian Interference-Causing Equipment Regulations. This engine complies with all current Australian and New Zealand limitations regarding electromagnetic interference. Check spark plug yearly or every 100 operating hours.

- A. Clean area around spark plug.
- B. Remove and inspect spark plug.
- C. Replace spark plug if electrodes are pitted, burned or porcelain is cracked. For replacement use Champion RJ-19LM or equivalent.

NOTE: A resistor spark plug must be used for replacement.

- D. Check electrodes gap with wire feeler gauge and set gap at .030 if necessary.
- E. Install spark plug, tighten securely.





(5) COOLING SYSTEM:

IMPORTANT: Frequently remove any grass clippings, dirt and debris from cooling fins, air intake screen and levers and linkage (see Figure 1). This will help ensure adequate cooling and correct engine speed.

6 CHECKENGINE AND EQUIPMENT OFTEN FOR LOOSE NUTS, BOLTS AND ATTACHMENTS, AND KEEP THESE ITEMS TIGHTENED.

ADJUSTMENTS

DO NOT MAKE UNNECESSARY ADJUSTMENTS. FACTORY SET-TINGS ARE SATISFACTORY FOR MOST APPLICATIONS AND CONDITIONS. IF ADJUSTMENTS ARE NEEDED, PROCEED AS FOLLOWS:

If you think your carburetor needs adjusting, see your nearest SEARS, ROEBUCK AND CO. (OR SEARS CANADA, INC.) SERVICE CENTER. Engine performance should not be affected at altitudes up to 7,000 feet. For operation at higher elevations, contact your nearest SEARS, ROEBUCK AND CO. (OR SEARS CANADA, INC.) SERVICE CENTER.

2 ENGINE SPEED

NEVER TAMPER WITH ENGINE GOVERNOR WHICH IS FAC-TORY SET FOR PROPER ENGINE SPEED. OVERSPEEDING ENGINE ABOVE FACTORY HIGH SPEED SETTING CAN BE DANGEROUS. CHANGING OF ENGINE-GOVERNED SPEED WILL VOID ENGINE WARRANTY.

STORAGE

NEVER STORE ENGINE WITH FUEL IN TANK INDOORS OR IN ENCLOSED, POORLY VENTILATED AREAS, WHERE FUEL FUMES MAY REACH AN OPEN FLAME, SPARK OR PILOT LIGHT AS ON A FURNACE, WATER HEATER, CLOTHES DRYER OR OTHER GAS APPLIANCE.

IF ENGINE IS TO BE UNUSED FOR 30 DAYS OR MORE, PREPARE AS FOLLOWS:

(1) DRAIN FUEL SYSTEM:

A. Remove all gasoline from carburetor and fuel tank to prevent gum deposits from forming on these parts and causing possible malfunction of engine.

DRAIN FUEL INTO APPROVED CONTAINER OUTDOORS, AWAY FROM OPEN FLAME. BE SURE ENGINE IS COOL. DO NOT SMOKE.

B. Run engine until fuel tank is empty and engine stops due to lack of fuel.

NOTE: Fuel stabilizer (such as STA-BIL) is an acceptable alternative in minimizing the formation of fuel gum deposits during storage. Add stabilizer to gasoline in fuel tank or storage container. Always follow mix ratio found on stabilizer container. Run engine at least 10 minutes after adding stabilizer to allow it to reach carburetor.

2 CHANGE OIL:

Change oil if it has not been changed in the last three (3) months. See "CHANGE OIL" instructions in "MAINTENANCE" section on Page 3.

③ CLEAN ENGINE:

Remove any clippings, dirt, or chaff from exterior of engine.

GENERAL

Just as your automobile needs professional mechanical maintenance from time to time, so does your Craftsman engine. Replacement of the spark plug and air cleaner is made necessary by NORMAL use. Professional Air-Cooled Engine Service is as close as your nearest Sears Roebuck and Co. (or Sears Canada, Inc.) Service Center. A yearly check-up or tune-up by Sears is a good idea to avoid breakdowns or delay... do it at the end of the season, then you're ready for the next. We even prepare it for storage for you.

TROUBLESHOOTING

THE FOLLOWING MAY HELP AVOID A DELAY IN YOUR WORK OR SAVE THE EXPENSE OF A SERVICE CALL.

ENGINE FAILS TO START OR STARTS WITH DIFFIC	CULTY
CAUSE	REMEDY
Controls not in start position.	Move ENGINE CONTROL or equipment control to "HI" or START postion. See "STARTING" instructions in this manual.
Spark plug wire disconnected from spark plug.	Connect SPARK PLUG WIRE to SPARK PLUG.
Spark plug fouled.	Remove SPARK PLUG and clean it. See "SPARK PLUG" instructions in "MAINTENANCE" section in this manual.
Spark plug porcelain cracked.	Install new spark plug.
Insufficient fuel.	Fill FUEL TANK per "BEFORE STARTING" instructions.
Water or dirt in fuel.	Drain FUEL TANK and re-fill with clean, fresh gasoline. See "BEFORE STARTING" instructions in this manual.
Improper carburetor adjustment	Adjust carburetor (if applicable). See "ADJUSTMENTS" section in this manual.
ENGINE LACKS POWER	
CAUSE	REMEDY
Dirty air cleaner.	Replace or clean air cleaner per "AIR CLEANER" instructions in "MAINTENANCE" section in this manual.
Improper carburetor adjustment.	Adjust carburetor (if applicable). See "ADJUSTMENTS" section in this manual.
Lack of lubricaiton.	Fill oil sump to proper level. See "BEFORE STARTING" instructions section in this manual.
ENGINE MISSES UNDER LOAD	
CAUSE	REMEDY
Spark plug fouled.	Remove SPARK PLUG and clean it. See "SPARK PLUG" instructions in "MAINTENANCE" section in this manual.
Spark plug porcelain cracked.	Install new SPARK PLUG.
Improper spark plug gap.	Regap SPARK PLUG electrodes. See "SPARK PLUG" instructions in "MAINTENANCE" section in this manual.
Improper carburetor adjustment	Adjust carburetor (if applicable). See "ADJUSTMENTS" section in this manual.

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SEARS, ROEBUCK AND CO. Federal and California Emission Control Systems Limited Warranty Utility and Lawn and Garden Engines

CALIFORNIA & US EPA EMISSION CONTROL WARRANTY STATEMENT

The U. S. Environmental Protection Agency ("EPA"), the California Air Resources Board ("CARB") and Sears, Roebuck and Co. are pleased to explain the Federal and California Emission Control Systems Warranty on your new utility or lawn and garden equipment engines. In California, new 1995 and later utility and lawn and garden equipment engines must be designed, built and equipped to meet the State's stringent anti-smog standards. In other states, new 1997 and later model year engines must be designed, built and equipped, at the time of sale, to meet the U.S. EPA regulations for small non-road engines. Sears, Roebuck and Co. will warrant the emission control system on your utility or lawn and garden equipment engine for the periods of time listed below, provided there has been no abuse, neglect, unapproved modification, or improper maintenance of your utility or lawn and garden equipment engine.

Your emission control system may include parts such as the carburetor, ignition system and exhaust system. Also included may be the compression release system and other emission-related assemblies.

Where a warrantable condition exists, Sears, Roebuck and Co. will repair your utility or fawn and garden equipment engine at no cost to you for diagnosis, parts and labor.

MANUFACTURER'S EMISSION CONTROL SYSTEM WARRANTY COVERAGE

Emission control systems on 1995 and later model year California utility and lawn and garden equipment engines are warranted for two years as hereinafter noted. In other states, 1997 and later model year engines are also warranted for two years. If, during such warranty period, any emission-related part on your engine is defective in materials or workmanship, the part will be repaired or replaced by Sears, Roebuck and Co.

OWNER'S WARRANTY RESPONSIBILITIES

As the utility or lawn and garden equipment engine owner, you are responsible for the performance of the required maintenance listed in your Owner's Manual, but Sears, Roebuck and Co. will not deny warranty solely due to the lack of receipts or for your failure to provide written evidence of the performance of all scheduled maintenance.

As the utility or lawn and garden equipment engine owner, you should, however, be aware that Sears, Roebuck and Co. may deny you warranty coverage if your utility or lawn and garden equipment or a part thereof has failed due to abuse, neglect, improper maintenance or unapproved modifications.

You are responsible for presenting your utility or lawn and garden equipment engine to a Sears, Roebuck and Co. Authorized Service Outlet as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

Warranty service can be arranged by contacting either a Sears, Roebuck and Co. Authorized Service Outlet, or by contacting Sears, Roebuck and Co. at 1-800-473-7247.

IMPORTANTNOTE

This warranty statement explains your rights and obligations under the Emission Control System Warranty ("ECS Warranty") which is provided to you by Sears, Roebuck and Co. pursuant to California law. See also the Sears, Roebuck and Co. Limited Warranties for Sears, Roebuck and Co. which is enclosed therewith on a separate sheet and also is provided to you by Sears, Roebuck and Co. The ECS Warranty applies only to the emission control system of your new engine. To the extent that there is any conflict in terms between the ECS Warranty and the Sears, Roebuck and Co. Warranty, the ECS Warranty shall apply except in any circumstances in which the Sears, Roebuck and Co. Warranty may provide a longer warranty period. Both the ECS Warranty and the Sears, Roebuck and Co. Warranty describe important rights and obligations with respect to your new engine. with respect to your new engine.

Warranty service can only be performed by a Sears, Roebuck and Co. Authorized Service Outlet. At the time of requesting warranty service, evidence must be presented of the date of sale to the original purchaser. The purchaser shall pay any charges for making service calls and/or for transporting the products to and from the place where the inspection and/or warranty work is performed. The purchaser shall be responsible for any damage or loss incurred in connection with the transportation of any engine or any part(s) thereof submitted for inspection and/or warranty work.

If you have any questions regarding your warranty rights and responsibilities, you should contact Sears, Roebuck and Co. at 1-800-473-7247.

EMISSION CONTROL SYSTEM WARRANTY

Emission Control System Warranty ("ECS Warranty") for 1995 and later model year California utility and lawn and garden equipment engines (for other states, 1997 and later model year engines):

A. APPLICABILITY: This warranty shall apply to 1995 and later model year California utility and lawn and garden equipment engines (for other states, 1997 and later model year engines). The ECS Warranty Period shall begin on the date the new engine or equipment is delivered to its original, end-use purchaser, and shall continue for 24 consecutive months thereafter.

B. GENERAL EMISSIONS WARRANTY COVERAGE: Sears, Roebuck and Co. warrants to the original, end-use purchaser of the new engine or equipment and to each subsequent purchaser that each of its utility and lawn and garden equipment engines is:

- 1. Designed, built and equipped so as to conform with all applicable regulations adopted by the Air Resources Board pursuant to its authority in Chapters 1 and 2, Part 5, Division 26 of the Health and Safety Code,
- Free from defects in materials and workmanship which, at any time during the ECS Warranty Period, will cause a warranted emissions-related part to fail to be identical in all material respects to the part as described in the engine manufacturer's application for certification.
- C. The ECS Warranty only pertains to emissions-related parts on your engine, as follows:
 - Any warranted, emissions-related parts which are not scheduled for Any warranted, emissions-related parts which are not scheduled for replacement as required maintenance in the Owner's Manual shall be warranted for the ECS Warranty Period. If any such part fails during the ECS Warranty Period, it shall be repaired or replaced by Sears, Roebuck and Co. according to Subsection 4 below. Any such part repaired or replaced under the ECS Warranty shall be warranted for any remainder of the ECS Warranty Period. the ECS Warranty Period.
 - Any warranted, emissions-related part which is scheduled only for regular inspection as specified in the Owner's Manual shall be warranted for the ECS Warranty Period. A statement in such written instructions to the effect of "repair or replace as necessary", shall not reduce the ECS Warranty Period. Any such part repaired or replaced under the ECS Warranty shall be warranted for the remainder of the ECS Warranty Period. Period.
 - 3. Any warranted, emissions-related part which is scheduled for replacement as required maintenance in the Owner's Manual, shall be warranted for the period of time prior to the first scheduled replacement point for that part. If the part fails prior to the first scheduled replacement, the part shall be repaired or replaced by Sears, Roebuck and Co. according to Subsection 4 below. Any such emissions-related part repaired or replaced under the ECS Warranty, shall be warranted for the remainder of the ECS Warranty Period prior to the first scheduled replacement point for such emissions-related part. related part.
 - Repair or replacement of any warranted, emissions-related part under this ECS Warranty shall be performed at no charge to the owner at a Sears, Roebuck and Co. Authorized Service Outlet.
 - The owner shall not be charged for diagnostic labor which leads to the determination that a part covered by the ECS Warranty is in fact defective, provided that such diagnostic work is performed at a Sears, Roebuck and Co. Authorized Service Outlet. 5.
 - Sears, Roebuck and Co. shall be liable for damages to other original engine components or approved modifications proximately caused by a failure under warranty of an emission-related part covered by the ECS Warranty.
 - Throughout the ECS Warranty Period, Sears, Roebuck and Co. shall maintain a supply of warranted emission-related parts sufficient to meet the expected demand for such emission-related parts. 7.
 - Any Sears, Roebuck and Co. authorized and approved emission-related replacement part may be used in the performance of any ECS Warranty maintenance or repair and will be provided without charge to the owner. Such use shall not reduce Sears, Roebuck and Co. ECS Warranty obligations.
 - 9. Unapproved add-on or modified parts may not be used to modify or repair a Sears, Roebuck and Co. engine. Such use voids this ECS Warranty and shall be sufficient grounds for disallowing an ECS Warranty claim. Sears, Roebuck and Co. shall not be liable hereunder for failures of any warranted parts of a Sears, Roebuck and Co. engine caused by the use of such an unapproved add-on or modified part. the use of such an unapproved add-on or modified part.

EMISSION-RELATED PARTS INCLUDE THE FOLLOWING:

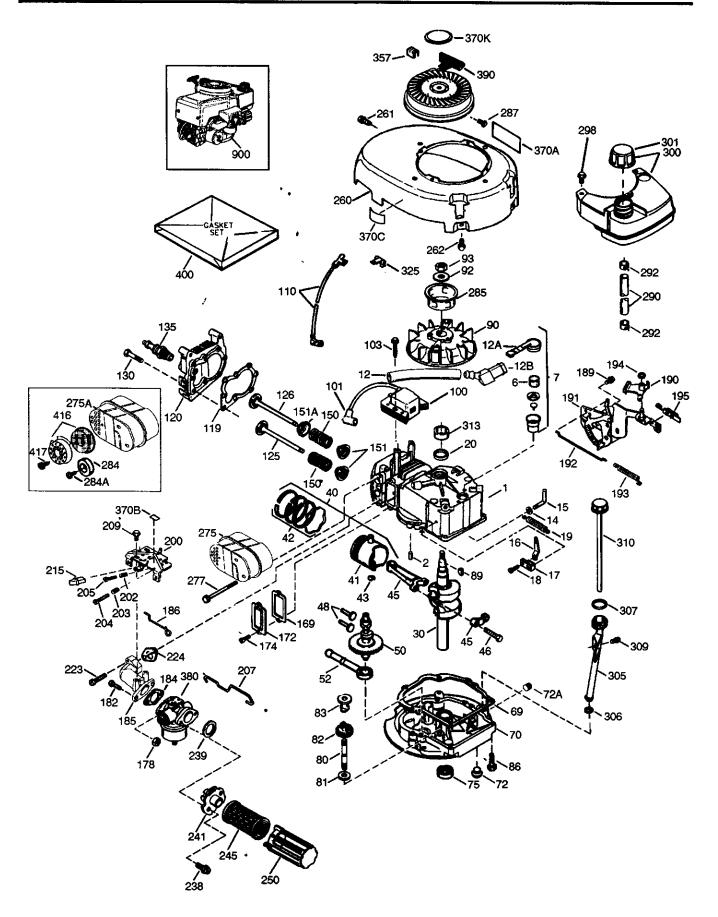
- 1. Carburetor Assembly and its Internal Components a) Fuel filter
 - b) Carburetor gaskets
- c) Intake pipe
- 2. Air Cleaner Assembly a) Air filter element
- Ignition System, including: 3.
- a) Spark plug
- b) Ignition module c) Flywheel assembly

- c) rigwheer asserting
 c) Tailwheer asserting
 a) Muffler gasket (if so equipped)
 a) Auffler gasket (if so equipped)
 b) Exhaust manifold (if so equipped)
 c) Crankcase Breather Assembly and its Components 5.
 - a) Breather connection tube

7.22.97 EPA/CARB

Sears, Roebuck and Co., Hoffman Estates, IL 60179 U.S.A.

CRAFTSMAN 4-CYCLE ENGINE



CRAFTSMAN 4-CYCLE ENGINE

MODEL: 143.994006

Ref. No.	Part No.	Part Name	Ref. No.	Part No.	Part Name
1	37280	Cylinder (Incl. 2,20 & 150)	151A	40017	Intake Valve Seal
2	26727	Dowel Pin	169	*36783	Valve Cover Gasket
6	33734	Breather Element	172	36784	Valve Cover
7	36557	Breather Ass'y. (Incl. 6 & 12A)	174	30200	Screw, 10-24 x 9/16"
12	36775	Breather Tube	178	29752	Nut & Lock Washer, 1/4-28
12A	36558	Breather Cover & Tube (Incl. 12B)	182	6201	Screw, 1/4-28 x 7/8*
12B	36694	Breather Tube Elbow	184	*26756	Carburetor To Intake Pipe Gasket
14	28277	Washer	185	36785	Intake Pipe
15 16	30589 34839A	Governor Rod (Incl. 14)	186	34337	Governor Link
17	34639A 31335	Governor Lever	189	650839	Screw, 1/4-20 x 3/8"
18	651018	Screw, Torx T-15, 8-32 x 19/64"	190	35831	Brake Lever
19	36281	Extension Spring	191 192	35015B 34966	S.E. Brake Bracket (Incl. 195)
20	32600	Oil Seal	192	34965	Brake Control Link
30	37140	Crankshaft	193	32309	Brake Spring Retaining Ring
40	35544A	Piston, Pin & Ring Set (Std.)	195	610973	Terminal
40	35545A	Piston, Pin & Ring Set (.010" OS)	200	35727	Control Bracket (Incl. 202 thru 205)
40	35546	Piston, Pin & Ring/Set (.020" OS)	202	36482	Compression Spring
41	35541	Piston & Pin Ass'y. (Std.) (Incl. 43)	203	31342	Compression Spring
41	35542	Piston & Pin Ass'y. (.010" OS) (Incl.	204	651029	Screw, Torx T-10, 5-40 x 7/16"
I		43)	205	651019	Screw, Torx T-10, 6-32 x 41/64"
41	35543	Piston & Pin Ass'y. (.020" OS) (Incl.	207	34336	Throttle Link
		43)	209	30200	Screw, 10-24 x 9/16"
42	35547A	Ring Set (Std.)	215	32410	Control Knob
42	35548A	Ring Set (.010" OS)	223	650451	Screw, 1/4-20 x 1"
42 43	35549 20381	Ring Set (.020" OS)	224	*36786	Intake Pipe Gasket
43	36777	Piston Pin Retaining Ring Connecting Rod Ass'y. (Incl. 46)	238	650932	Screw, 10-32 x 49/64"
46	32610A	Connecting Rod Bolt	239	*34338	Air Cleaner Gasket
48	27241	Valve Lifter	241	35797 35066	Air Cleaner Collar Air Cleaner Filter
50	37032	Camshaft (NCR)	250	35065	Air Cleaner Cover
52	29914	Oil Pump Ass'y.	260	36980	Blower Housing
69	*35261	Mounting Flange Gasket	261	30200	Screw, 10-24 x 9/16*
70	34311E	Mounting Flange (Incl. 72 thru	262	650831	Screw, 1/4-20 x 1/2"
		83,306)	275	36837A	Muffler
72	36083	Oil Drain Plug	275A	36838A	Spark Arrestor Muffler (Optional)
72A	28534	Oil Drain Plug			(Incl. 284, 284A, 416 & 417)
75	27897	Oil Seal	277	650988	Screw, 1/4-20 x 2-5/16"
80 81	30574A 30590A	Governor Shaft	284	36663	Muffler Deflector (Incl. 284A)
82	30590A 30591	Washer		050004	(Optional)
83	30591 30588A	Governor Gear Ass'y. (Incl. 81) Governor Spool	284A	650821	Screw, 10-32 x 1/2" (Optional)
86	650488	Screw, 1/4-20 x 1-1/4"	285 287	35000A	Starter Cup
89	611004	Flywheel Key	287	650926 29774	Screw, 8-32 x 21/64" Fuel Line
90	611112	Flywheel	290	26460	Fuel Line Clamp
92	650815	Belleville Washer	298	28763	Screw, 10-32 x 35/64*
93	650816	Flywheel Nut	300	36916	Fuel Tank (Incl. 292 & 301)
100	34443B	Solid State Ignition	301	36246	Fuel Cap
101	610118	Spark Plug Cover	305	35647	Oil Fill Tube
103	651007	Screw, Torx T-15, 10-24 x 15/16"	306	*36996	"O"-Ring
110	37047	Ground Wire	307	35499	"O"-Ring
119 120	*37028 36825	Cylinder Head Gasket	309	650562	Screw, 10-32 x 3/8"
120	30825	Cylinder Head Exhaust Valve (Std.) (Incl. 151)			
125	37289	Exhaust Valve (Std.) (Incl. 151) Intake Valve (Std.) (Incl. 151)			
130	6021A	Screw, 5/16-18 x 1-1/2"			
135	35395	Resistor Spark Plug (RJ19LM)			
150	31672	Valve Spring			tindiantes Darts la statestat
151	31673	Valve Spring Cap			*Indicates Parts Included in Gasket Set, Ref. No. 400.
					Gaskel Gol, Hel. NO. 400.
	L				

CRAFTSMAN 4-CYCLE ENGINE

MODEL: 143.994006

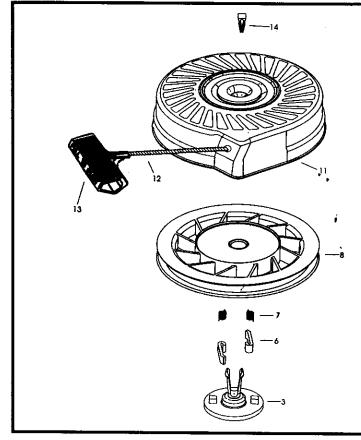
Ref. No.	Part No.	Part Name	Ref. No.	Part No.	Part Name
310 313 325 357 370A 370B 370C 370K 380 390	35648 34080 37152 36412 36261 35167 37199 36695 640156 590737	Dipstick Spacer Spring Clip Starter Rope Retainer Lubrication Decal Control Decal Primer Decal Starter Decal Carburetor (Incl. 184) Rewind Starter (NOTE: This engine could have been built with 590694 starter).	400 416 417 900 900	37029A 36085 650821 181-1178-11	Gasket Set (Incl. Items Marked *) Spark Arrestor Kit (Incl. 417) (Optional) Screw, 10-32 x 1/2" (Optional) Replacement Engine 750814A, order from 71-999 Replacement Short Block NONE Operator's Manual *Indicates Parts Included in Gasket Set, Ref. No. 400. RPM High 2700 to 3000 RPM Low 2400 to 2700

CARBURETOR NO. 640156

Ref.	Part	
ner. 1 2 4 5 6 7 16 17 18 20 20A 25 27 28 29 30 31 35 36A 37 40 44 47 48 60	Part No. 640156 631615 631767 *631184 *631183 640076 650506 631807 651025 630766 640016 640053 631024 632019 *631021 631021 631021 631028 *631028 *631028 *631027 632735 632547 640157 27110A *630748 (631027 632760	Part Name Carburetor (Incl. 184 of Engine Parts List) Throttle Shaft & Lever Assembly Throttle Return Spring Dust Seal Washer Dust Seal (Throttle) Throttle Shutter Shutter Screw Fuel Fitting Throttle Crack Screw/Idle Speed Screw Tension Spring Idle Restrictor Screw Idle Restrictor Screw Idle Restrictor Screw Cap Float Bowl Float Shaft Float Float Bowl "O" Ring Inlet Needle, Seat, & Clip (Incl. 31) Spring Clip Primer Bulb/Retainer Ring Main Nozzle Tube Carburetor Tube "O" Ring, Main Nozzle Tube High Speed Bowl Nut Bowl Nut Washer Welch Plug, Idle Mixture Well Welch Plug, Atmospheric Vent Repair kit (Incl. Items Marked *)

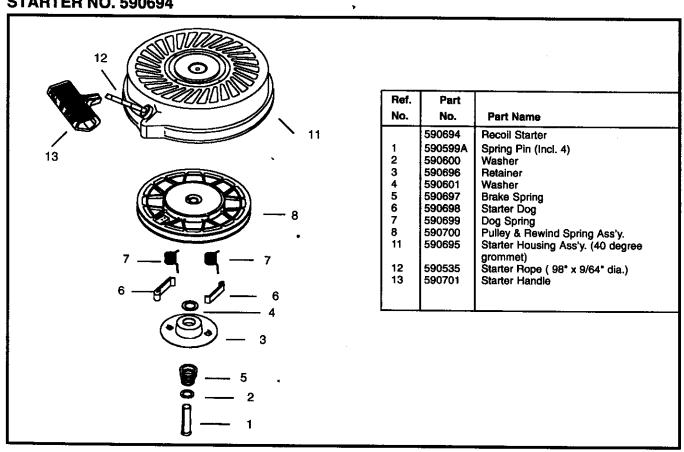
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REWIND STARTER NO. 590737



Ref. No.	Part No.	Part Name
	590737	Rewind Starter
3	590740	Retainer
6	590616	Starter Dog
7	590617	Dog Spring
8	590618A	Pulley & Rewind Spring Ass'y
11	590687A	Starter Housing Ass'y (40 degree grommet)
12	590535	Starter Rope (Length 98" x 9/64" dia.)
13	590701	Starter Handle
14	590760	Spring Clip

STARTER NO. 590694





operator's manual

MODEL NO. 143.994006

4.0 RESERVE POWER 10 CUBIC INCH (163 cc) DISPLACEMENT

SOLID STATE IGNITION

CAUTION:

Read RULES for Safe OPERATION and INSTRUCTIONS Carefully

How to ORDER Repair Parts

The Model Number can be found on a decal on the blower housing (See Figure 1). Always mention the Model Number when requesting service or repair parts for your Craftsman Engine.

All parts listed herein may be ordered from any SEARS, ROE-BUCK AND CO. or SEARS CANADA, INC. retail or catalog store. If the parts you need are not stocked locally, your order will be electronically transmitted to a Sears Repair Parts Distribution Center for expedited handling.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION AS SHOWN IN THIS LIST.

- 1. The PART NUMBER
- 2. The PART DESCRIPTION
- 3. The MODEL NUMBER
- 4. The NAME OF ITEM ENGINE

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